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SEQUENCE LISTING

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VAN DEN HEUVEL, JOOP

<120> ESTER-GROUP-CLEAVING ENZYME FROM THERMOMONOSPORA FUSCA

<130> 930008-2069

<140> 10/089,392
<141> 2002-07-10

<150> PCT/EP00/07115
<151> 2000-07-25

<160> 3

<170> PatentIn Ver. 3.2

<210> 1
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<212> PRT
<213> Thermomonospora fusca

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Ser Ala Ser Gly Phe Gly Gly Thr Ile Tyr Tyr Pro Arg Glu Asn
35 40 45
Asn Thr Tyr Gly Ala Val Ala Ile Ser Pro Gly Tyr Thr Gly Thr Glu
50 55 60
Ala Ser Ile Ala Trp Leu Gly Glu Arg Ile Ala Ser His Gly Phe Val
65 70 75 80
Val Ile Thr Ile Asp Thr Ile Thr Thr Leu Asp Gln Pro Asp Ser Arg
85 90 95
Ala Glu Gln Leu Asn Ala Ala Leu Asn His Met Ile Asn Arg Ala Ser
100 105 110
Ser Thr Val Arg Ser Arg Ile Asp Ser Ser Arg Leu Ala Val Met Gly
115 120 125
His Ser Met Gly Gly Gly Thr Leu Arg Leu Ala Ser Gln Arg Pro
130 135 140
Asp Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp His Leu Asn Lys Asn
145 150 155 160
Trp Ser Ser Val Thr Val Pro Thr Leu Ile Ile Gly Ala Asp Leu Asp
165 170 175
Thr Ile Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Asn Ser Leu
180 185 190

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Pro Ser Ser Ile Ser Lys Ala Tyr Leu Glu Leu Asp Gly Ala Thr His
195 200 205

Phe Ala Pro Asn Ile Pro Asn Lys Ile Ile Gly Lys Tyr Ser Val Ala
210 215 220

Trp Leu Lys Arg Phe Val Asp Asn Asp Thr Arg Tyr Thr Gln Phe Leu
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Ser Thr Cys Pro Phe
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Val Val Ser Gly Phe Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr
35 40 45

Gly Asp Gly Thr Phe Gly Ala Val Val Val Thr Pro Gly Phe Thr Ala
50 55 60

Thr Glu Ser Ser Met Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly
65 70 75 80

Phe Val Val Phe Thr Ile Asp Thr Leu Thr Thr Leu Asp Gln Pro Asp
85 90 95

Ser Arg Gly Arg Gln Met Leu Ala Ala Leu Asp Tyr Leu Thr Glu Arg
100 105 110

Ser Ser Ala Arg Thr Arg Ile Asp Gly Thr Arg Leu Gly Val Ile Gly
115 120 125

His Ser Met Gly Gly Gly Thr Leu Glu Ala Ala Lys Ser Arg Pro
130 135 140

Ser Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp Asn Leu Asp Lys Thr
145 150 155 160

Trp Pro Glu Val Thr Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp
165 170 175

Thr Val Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Ser Ser Leu
180 185 190

Pro Ser Ser Thr Asp Arg Ala Tyr Leu Glu Leu Asn Asn Ala Thr His
195 200 205

Phe Ala Pro Asn Leu Ser Asn Thr Thr Ile Ala Lys Tyr Ser Val Ser
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210 215 220 00229806

Trp Leu Lys Arg Phe Ile Asp Asp Asp Thr Arg Tyr Glu Gln Phe Leu
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Cys Pro Leu Pro Val Pro Asp Arg Asp Ile Glu Glu Tyr Arg Gly Thr
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Cys Pro Leu Gly Gly
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<213> Streptomyces sp. M11

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Ala Asn Pro Tyr Glu Arg Gly Pro Ala Pro Thr Asn Ala Ser Ile Glu
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Ala Ser Arg Gly Pro Tyr Ala Thr Ser Gln Thr Ser Val Ser Ser Leu
20 25 30

Val Ala Ser Gly Phe Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr
35 40 45

Ala Asp Gly Thr Phe Gly Ala Val Val Ile Ser Pro Gly Phe Thr Ala
50 55 60

Tyr Gln Ser Ser Ile Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly
65 70 75 80

Phe Val Val Phe Thr Ile Asp Thr Asn Thr Thr Leu Asp Gln Pro Asp
85 90 95

Ser Arg Gly Arg Gln Leu Leu Ser Ala Leu Asp Tyr Leu Thr Gln Arg
100 105 110

Ser Ser Val Arg Thr Arg Val Asp Ala Thr Arg Leu Gly Val Met Gly
115 120 125

His Ser Met Gly Gly Ser Leu Glu Ala Ala Lys Ser Arg Thr
130 135 140

Ser Leu Lys Ala Ala Ile Pro Leu Thr Gly Trp Asn Thr Asp Lys Thr
145 150 155 160

Trp Pro Glu Leu Arg Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp
165 170 175

Thr Val Ala Pro Val Ala Thr His Ser Lys Pro Phe Tyr Glu Ser Leu
180 185 190

Pro Gly Ser Leu Asp Lys Ala Tyr Leu Glu Leu Arg Gly Ala Ser His
195 200 205

Phe Thr Pro Asn Thr Ser Asp Thr Thr Ile Ala Lys Tyr Ser Ile Ser
210 215 220

Trp Leu Lys Arg Phe Ile Asp Ser Asp Thr Arg Tyr Glu Gln Phe Leu
225 230 235 240

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Cys Pro Ile Pro Arg Pro Ser Leu Thr Ile Ala Glu Tyr Arg Gly Thr
245 250 255

Cys Pro His Thr Ser
260